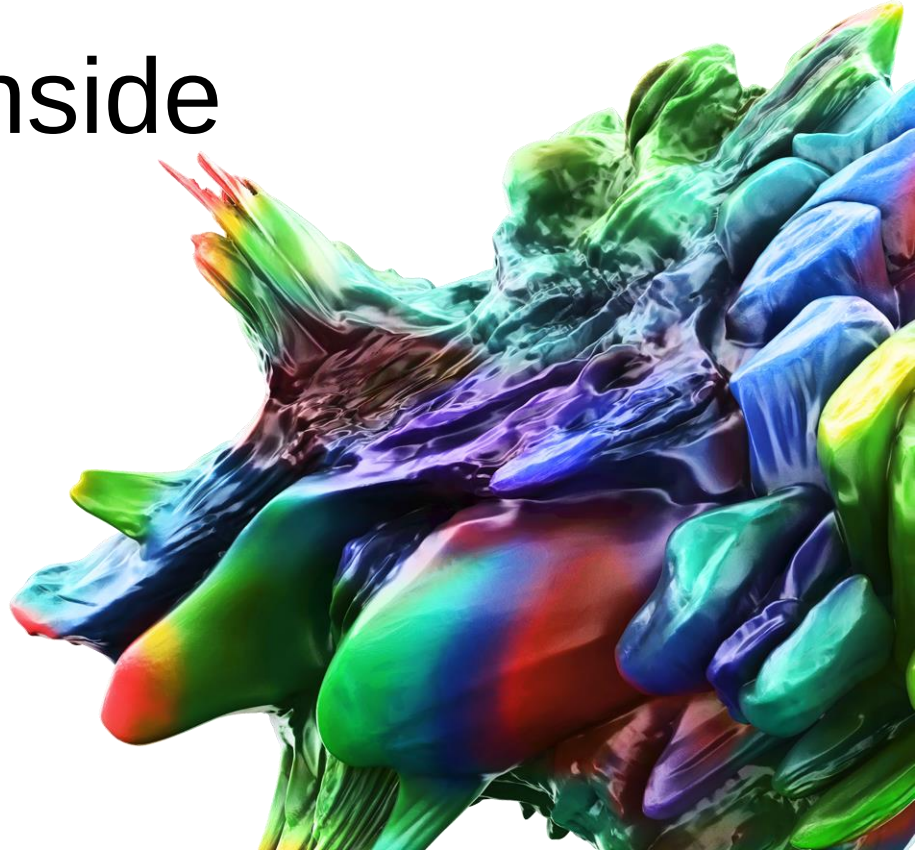
Insights from the Inside

Some new Features in
VGSTUDIO MAX 3.1



VG Support

Simplify your Daily Work with VGSTUDIO MAX 3.1

- Part I – Talk

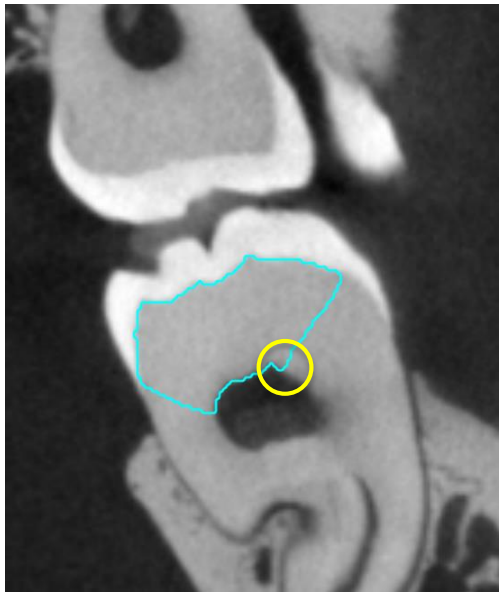
  Dr. Barbara Brehm

- Part II – Live presentation

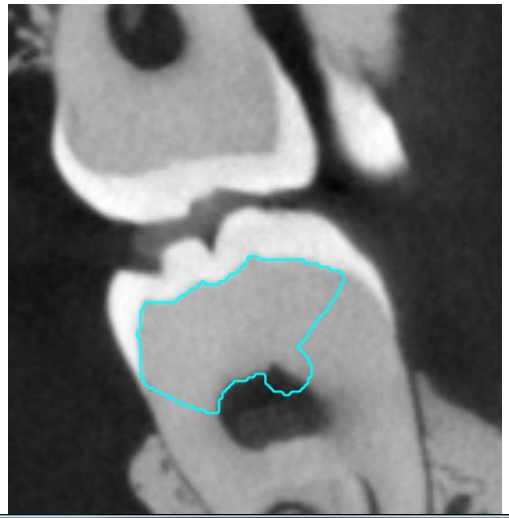
  Yannick Luck

Draw Tool with Gray Value Interval

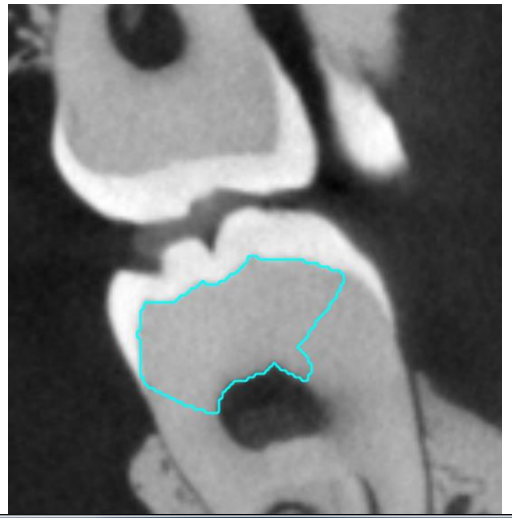
Start ROI



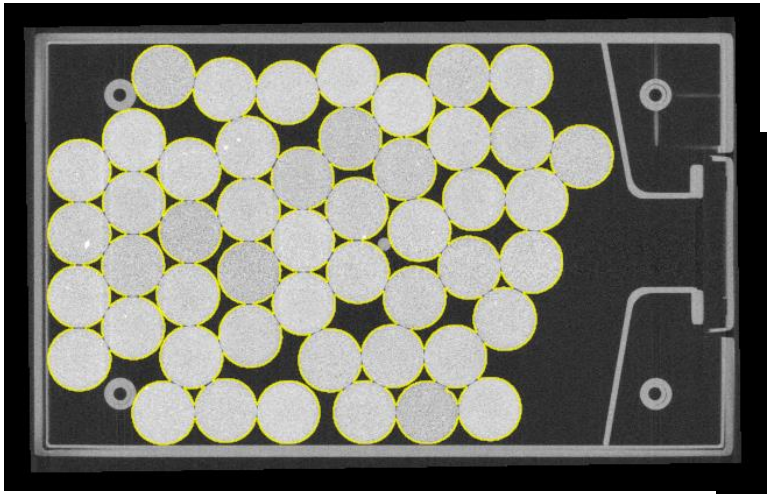
Without gray value interval

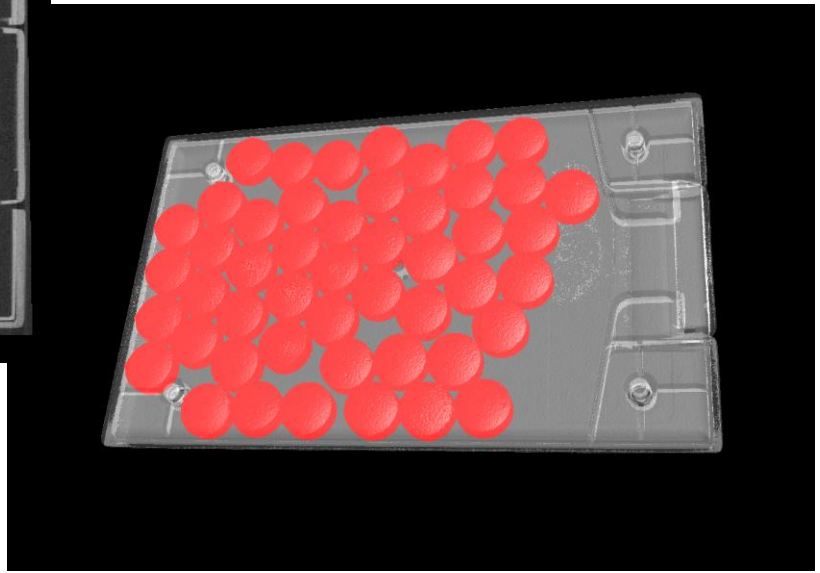


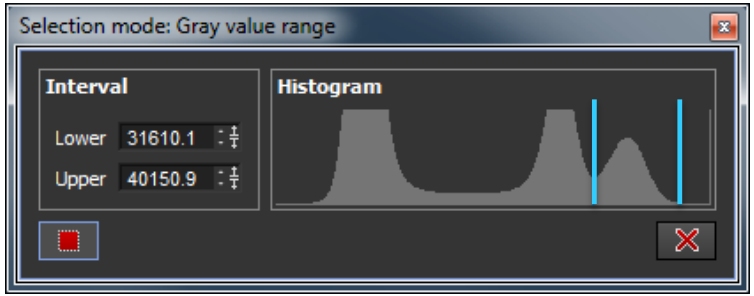
With gray value interval



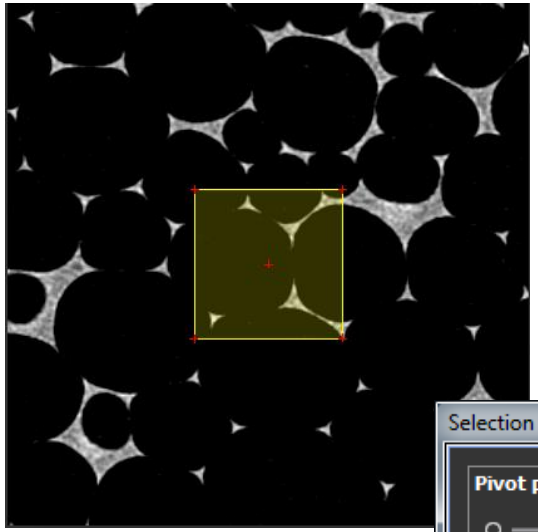
Gray Value Range with Histogram

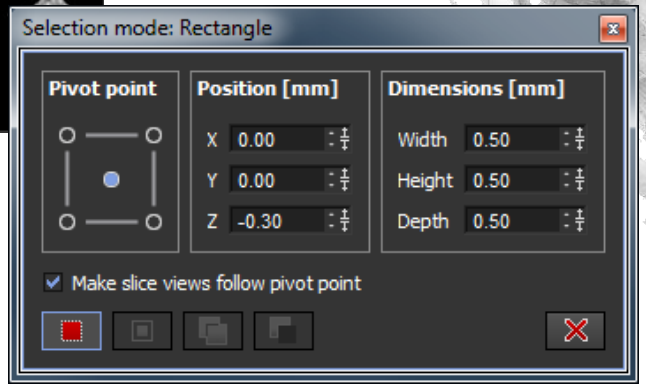


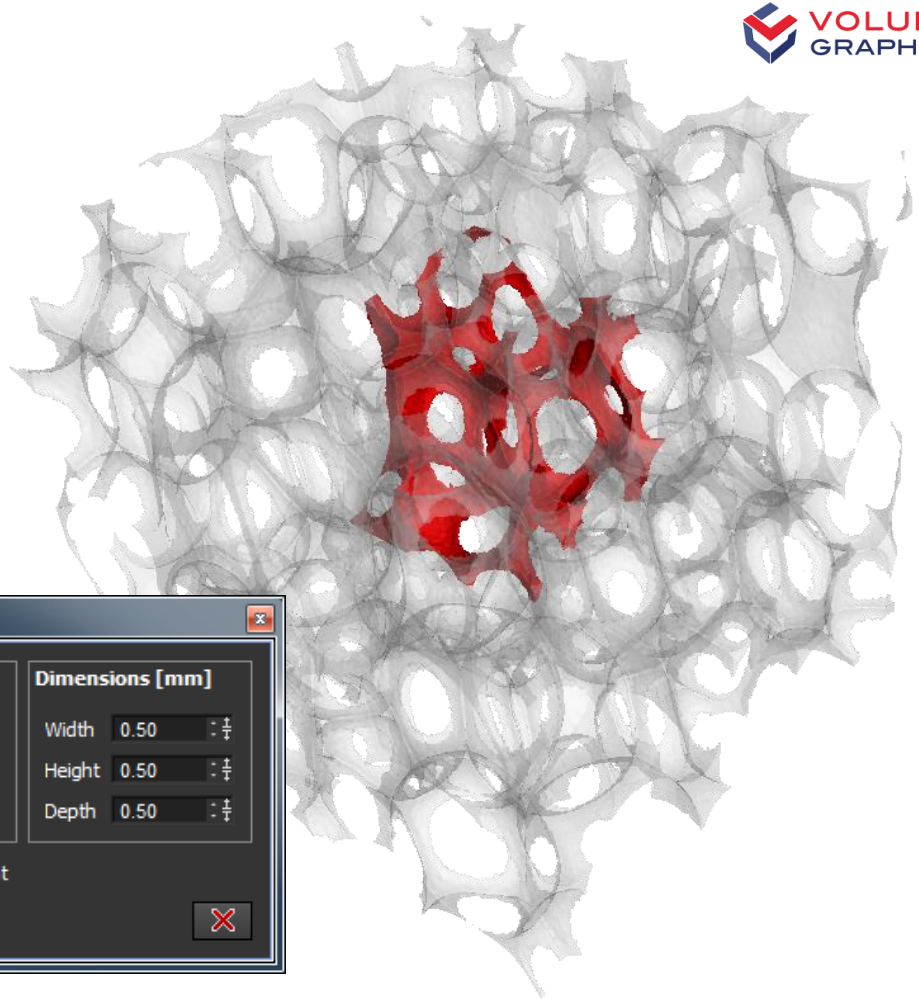




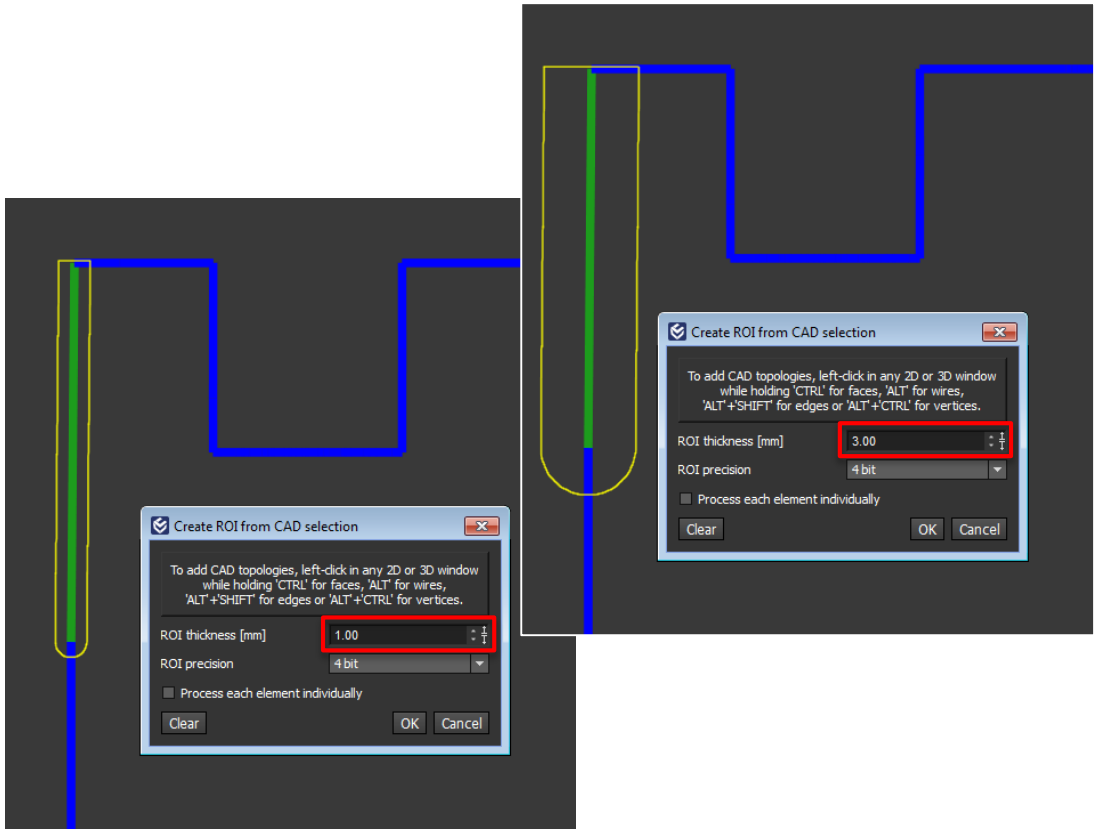
Define ROI Dimensions



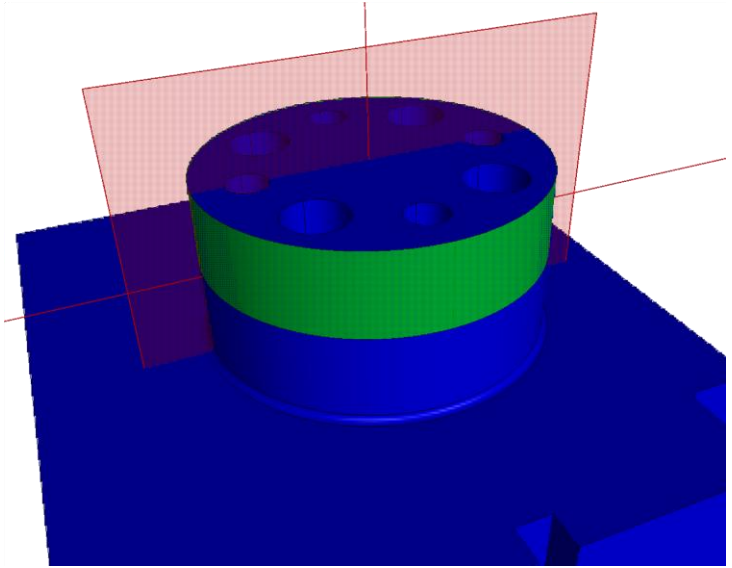




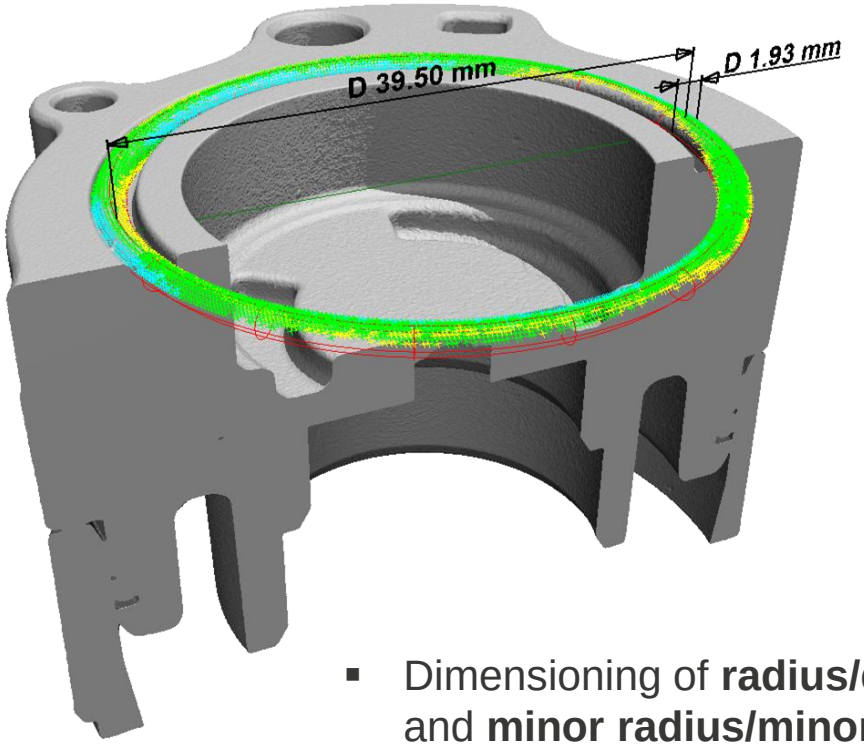
ROI from CAD Selection



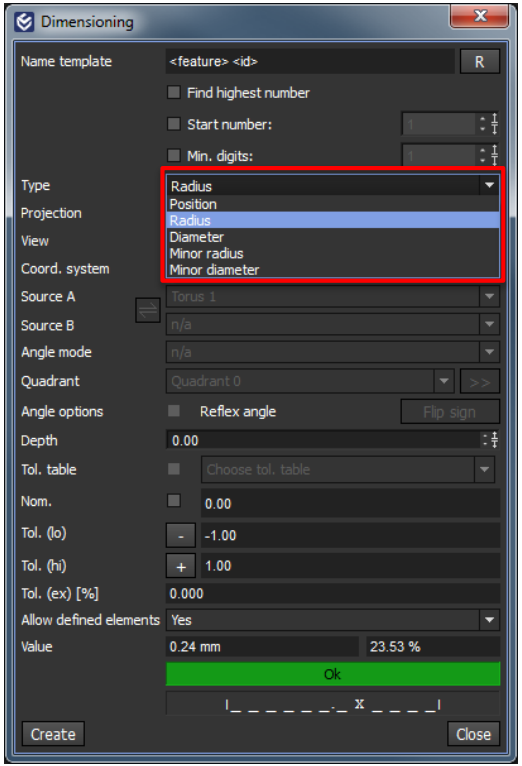
- Create ROI and define thickness



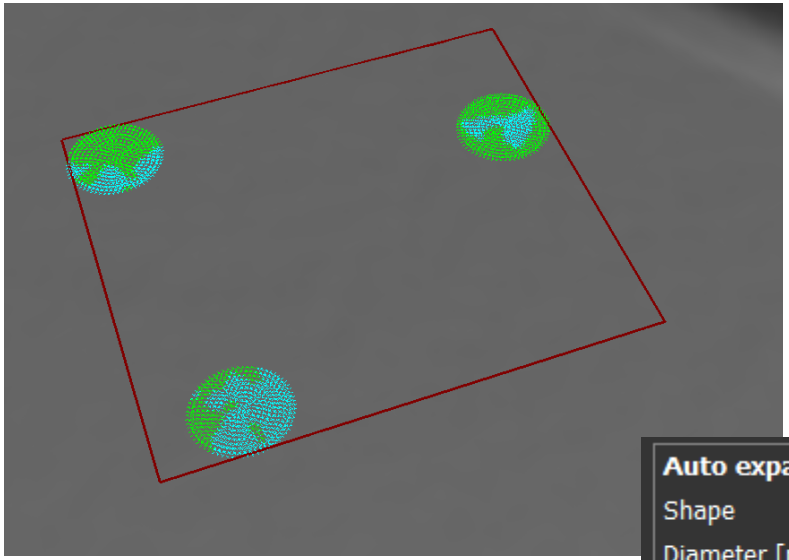
Torus

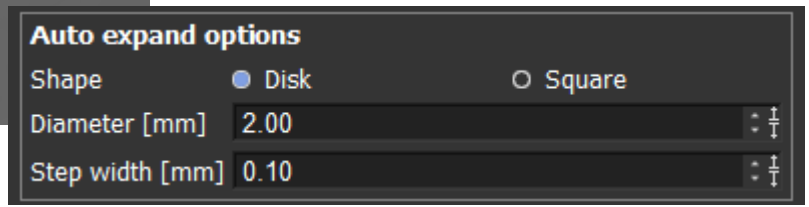


- Dimensioning of **radius/diameter** and **minor radius/minor diameter**



Adjustable Auto Expand

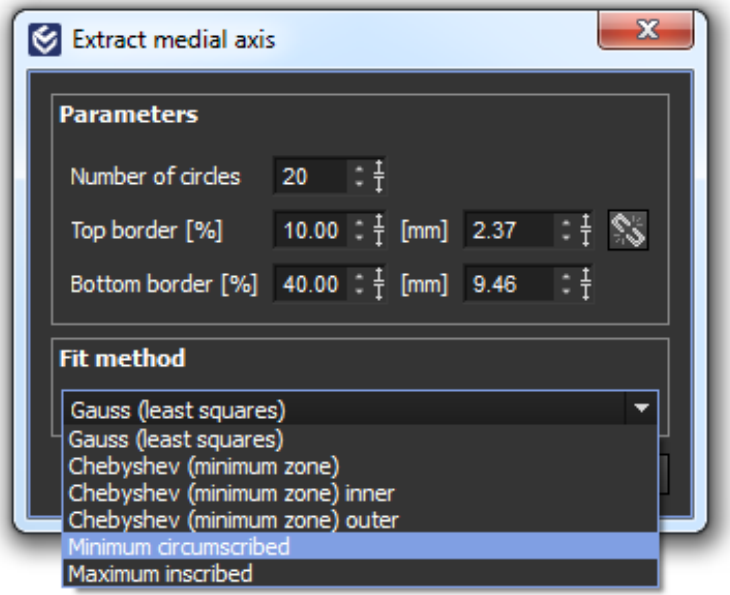


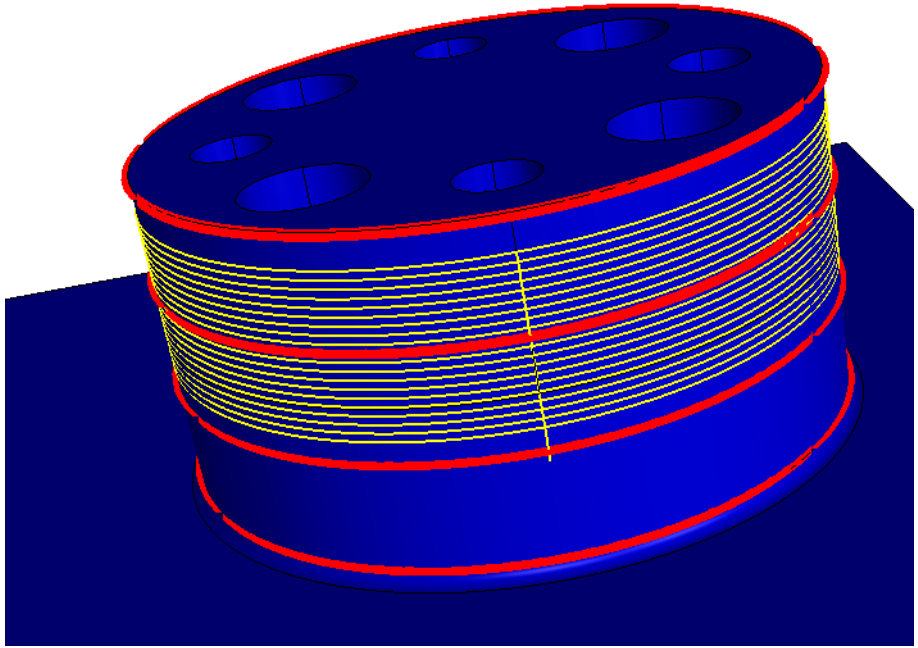


- Useful for fitting datum targets
- Increases fitting stability on rough surfaces

Customizable Extraction of Medial Axis

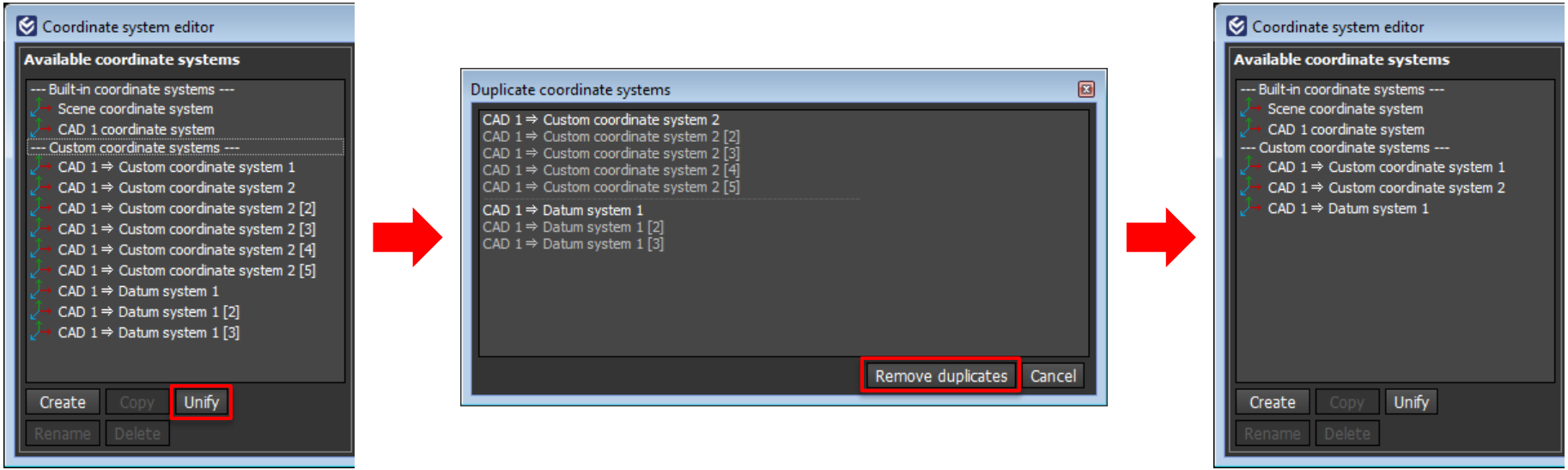
- Specify **Top border** and **Bottom border** separately
- Select **Fit method** for resulting circles





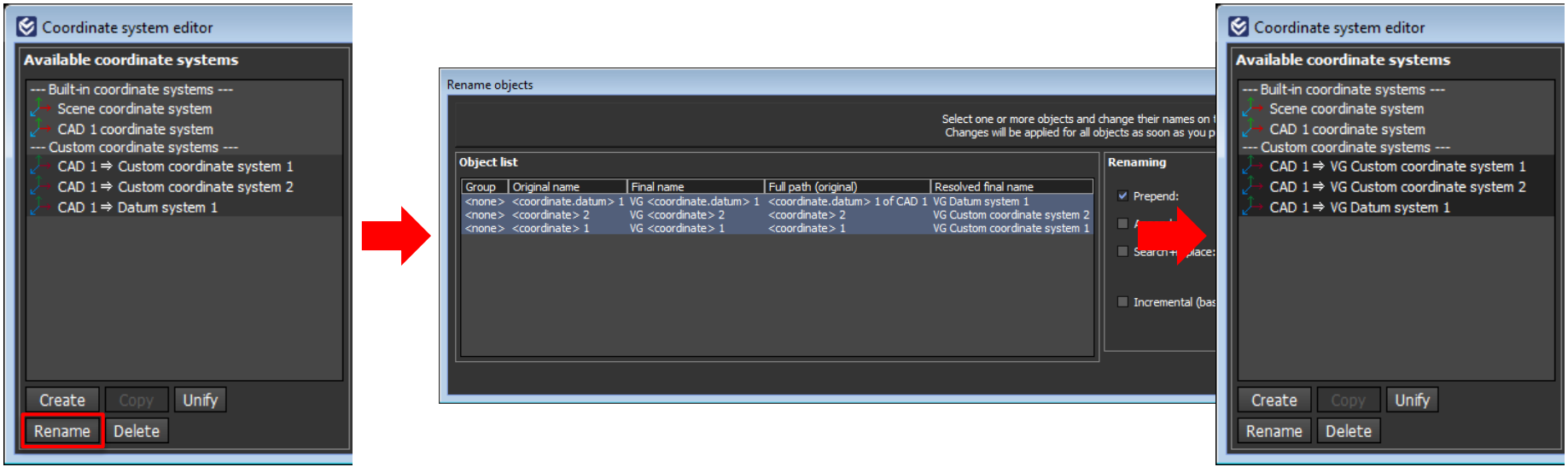
Coordinate System Editor

- Editing several coordinate systems at once
  - Unifying



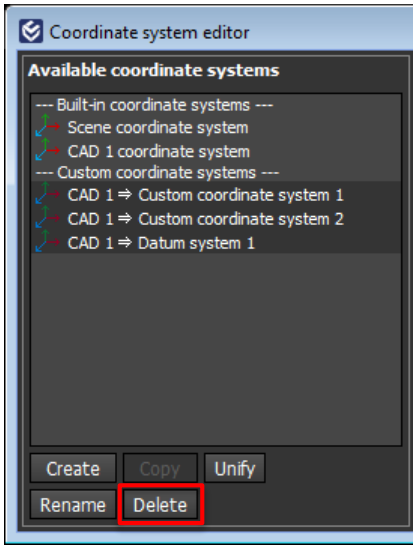
Coordinate System Editor

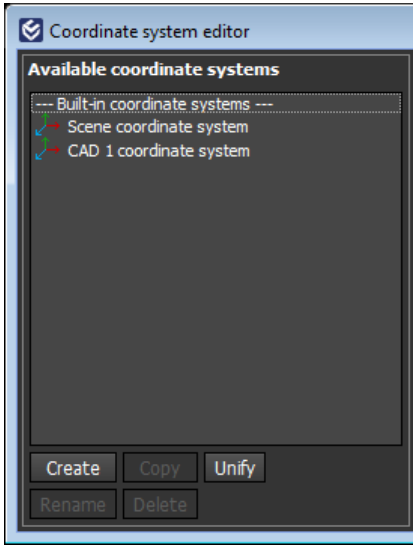
- Editing several coordinate systems at once
  - Unifying
  - Renaming



Coordinate System Editor

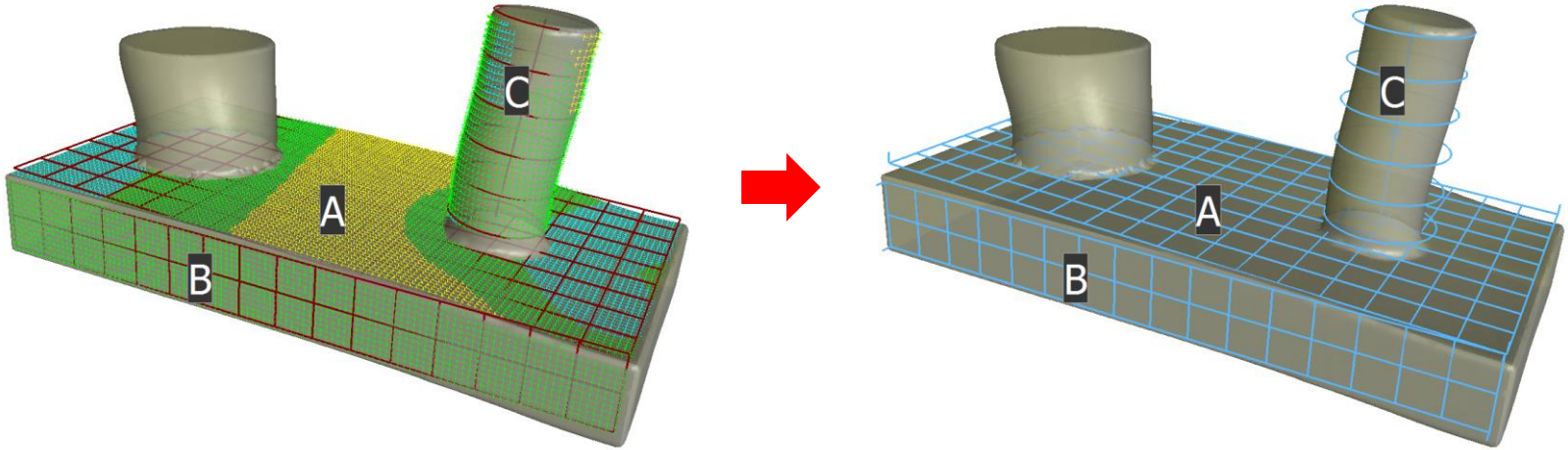
- Editing several coordinate systems at once
  - Unifying
  - Renaming
  - Deleting



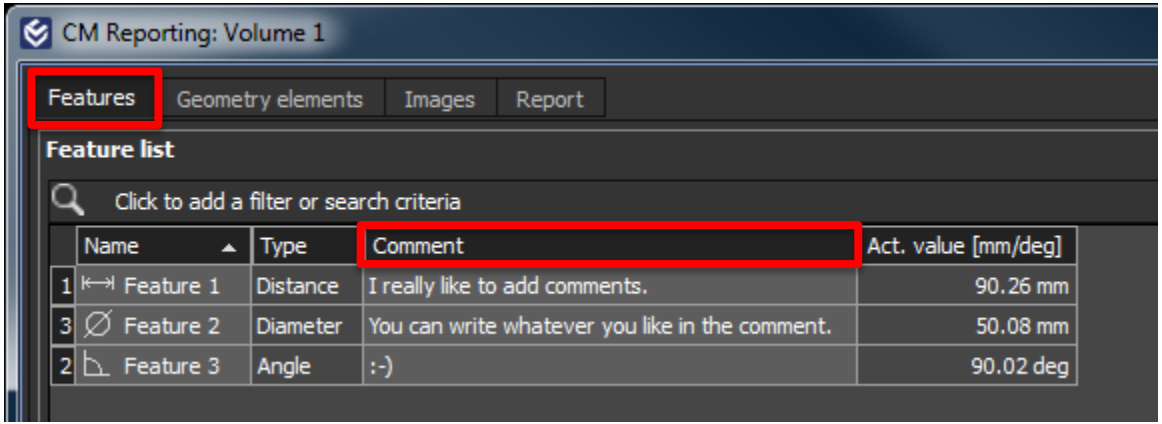


Datum Systems

- Common datum types and modifiers available
- Datum geometry elements refitted:
  - Considering perpendicularity constraints
  - Using contacting fit or Gauss
- Implemented according to DIN EN ISO 5459

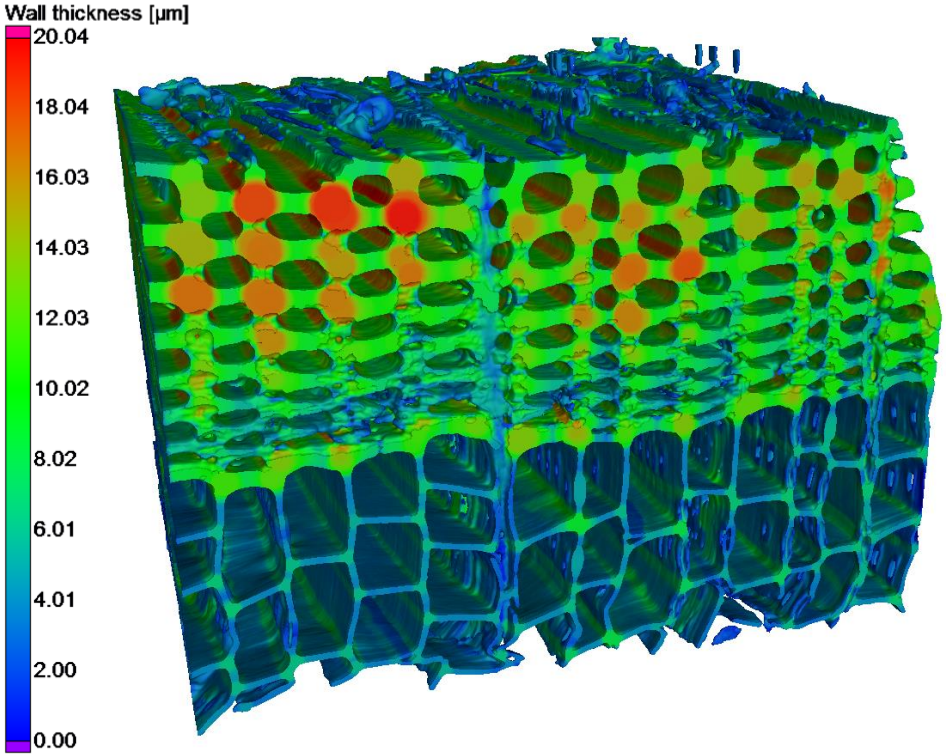


Comments in CM Reporting

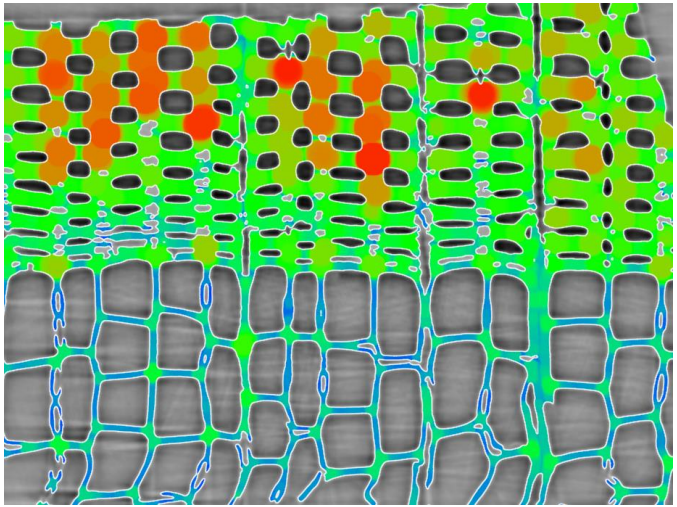


Name	Type	Comment	Act. value [mm/deg]
Feature 1	Distance	I really like to add comments.	90.26 mm
Feature 2	Diameter	You can write whatever you like in the comment.	50.08 mm
Feature 3	Angle	:-)	90.02 deg

Sphere Method for Wall Thickness Analysis

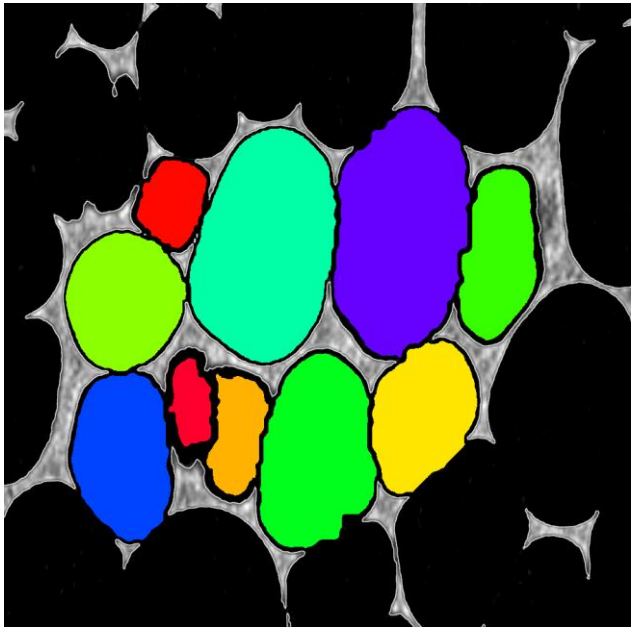


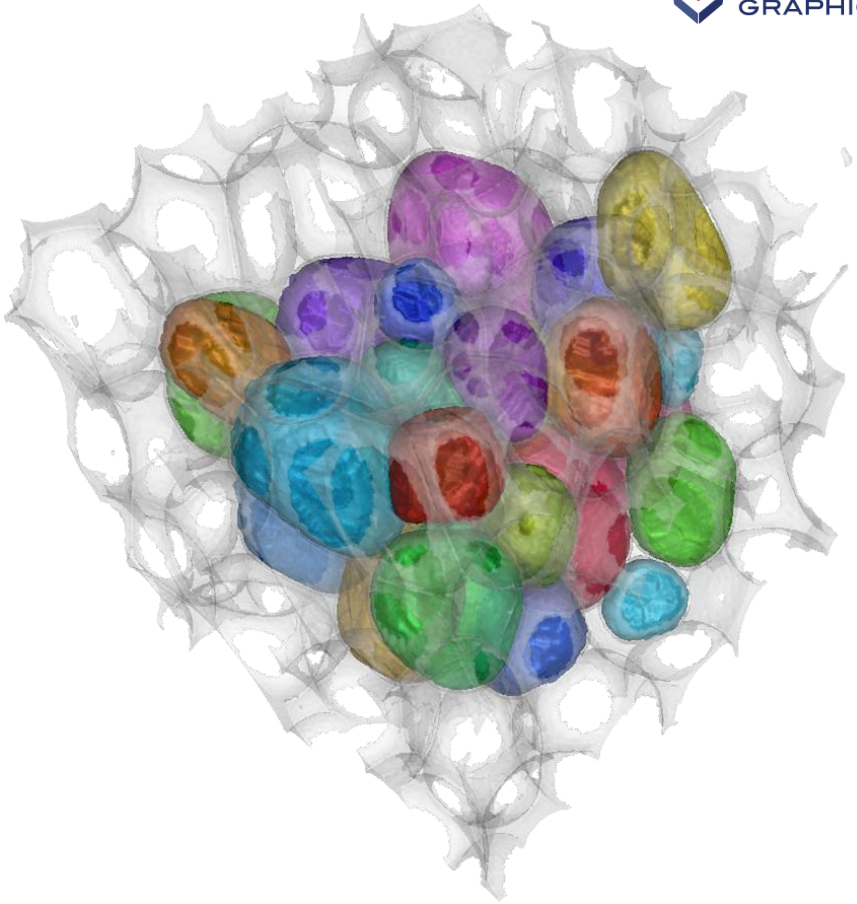
- Wall thickness determined by largest inscribed sphere



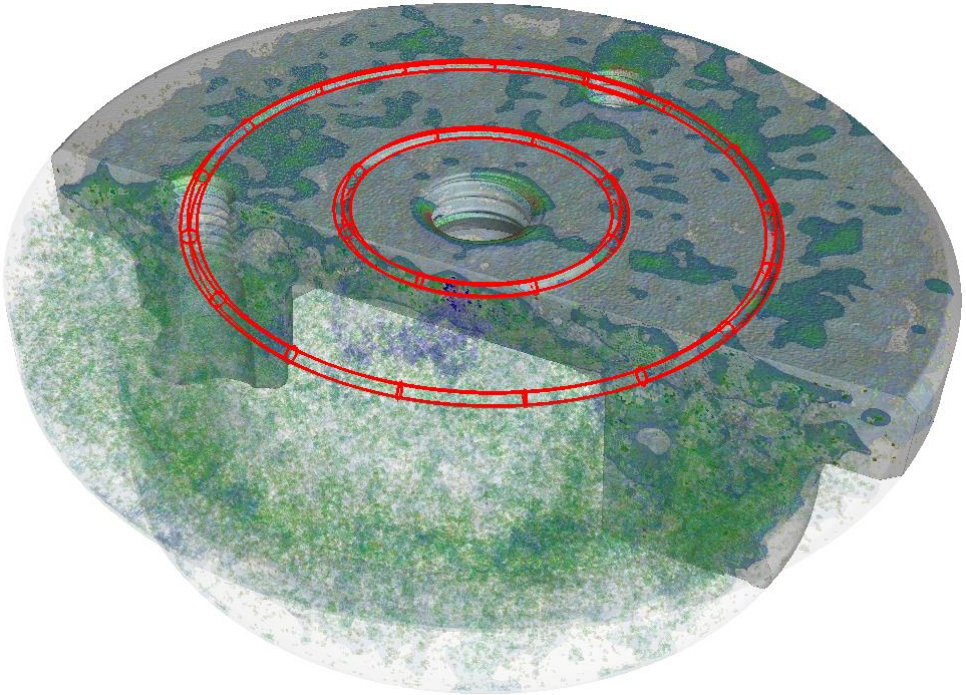
Foam Structure Analysis

- Option to exclude border cells from statistics and visualization





Part II – Live Presentation



Thank you

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